

10/539011

MODIFIED PTO/SB/08 A & B (06-03)

Substitute for Form 1449 A & B/PTO		JC09 REC'D. CT/PTO 15 JUN 2005	
<b><u>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</u></b>			
(use as many sheets as necessary)			
Sheet	1	of 1	
		Application Number	Unassigned
		Confirmation Number	Unassigned
		Filing Date	June 15, 2005
		First Named Inventor	Su-Jong KIM
		Art Unit	Unassigned
		Examiner Name	Unassigned
		Attorney Docket Number	Q88593

## U.S. PATENT DOCUMENTS

## FOREIGN PATENT DOCUMENTS

## NON-PATENT LITERATURE DOCUMENTS

NON-PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation <sup>6</sup>
M-C-H		S.J. Lee et al., "Induction of apoptosis by a novel intestinal metabolite of ginseng saponin via cytochrome c-mediated activation of caspase-3 protease", <i>Biochemical Pharmacology</i> , Vol. 60, No. 5, 2000, pp. 677-685	
M-C-H		K. Hideo, "Metabolic activation of ginsenoside against cancer: intestinal bacterial deglycosylation and hepatic fatty-acid esterification", <i>Wakan Iyakugaku Zasshi</i> , Vol. 18, No. 6, 2000, pp. 218-278	

**\*EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov), MPEP 901.04 or in the comment box of this document. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to indicate here if English language Translation is attached.

Substitute for Form 1449 A & B		<i>Complete if Known</i>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>		Application Number	10/539,011
		Confirmation Number	Unassigned
		Filing Date	June 15, 2005
		First Named Inventor	Su-Jong KIM
		Art Unit	Unassigned
		Examiner Name	Unassigned
		Attorney Docket Number	Q88593
Sheet	1	of	2

OCT 14 2005  
U.S. PATENT & TRADEMARK OFFICE

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code <sup>2</sup> (if known)		
	US				

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>			

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.			Translation <sup>6</sup>
M.C.H		Maria O. Longas et al., "Evidence for Structural Changes in Dermatan Sulfate and Hyaluronic Acid with Aging", <i>Carbohydrate Research</i> , Vol. 159, 1987, pp. 127-136			
		Ilaria Ghersetich et al., "Hyaluronic Acid in Cutaneous Intrinsic Aging", <i>International Journal of Dermatology</i> , Vol. 33, No. 2, February 1994, pp. 119-122			
		Paraskevi Heldin et al., "Effect of growth factors on hyaluronan synthesis in cultured human fibroblasts", <i>Biochem. J.</i> , Vol. 258, 1989, pp. 919-922			
		Paraskevi Heldin et al., "Characterization of the molecular mechanism involved in the activation of hyaluronan synthetase by platelet-derived growth factor in human mesothelial cells", <i>Biochem. J.</i> , Vol. 283, 1992, pp. 165-170			
		Masanobu Suzuki et al., "Stimulation of hyaluronan biosynthesis by platelet-derived growth factor-BB and transforming growth factor- $\beta$ 1 involves activation of protein kinase C", <i>Biochem. J.</i> , Vol. 307, 1995, pp. 817-821			
M.C.H		Evelina Tirone et al., "Hyaluronan Synthesis by Mouse Cumulus Cells Is Regulated by Interactions between Follicle-stimulating Hormone (or Epidermal Growth Factor) and a soluble Oocyte Factor (or Transforming Growth Factor $\beta$ 1)", <i>The Journal of Biological Chemistry</i> , Vol. 272, No. 8, February 21, 1997, pp. 4787-4794			

Examiner Signature		Date Considered	11/10/07
--------------------	--	-----------------	----------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov), MPEP 901.04 or in the comment box of this document. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to indicate here if English language Translation is attached.

Substitute for Form 1449 A &amp; B/PTO



**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

2

of

2

Complete if Known

Application Number	10/539,011
Confirmation Number	Unassigned
Filing Date	June 15, 2005
First Named Inventor	Su-Jong KIM
Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	Q88593

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate); title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation <sup>6</sup>
MC.H		Raija Tammi et al., "Hyaluronate Accumulation in Human Epidermis Treated with Retinoic Acid in Skin Organ Culture", <i>The Journal of Investigative Dermatology</i> , Vol. 92, no. 3, March 1989, pp. 326-332	
		Hiroshi Akiyama et al., "Analytical Studies on Hyaluronic Acid Synthesis by Normal Human Epidermal Keratinocytes Cultured in a Serum-Free Medium", <i>Biol. Pharm. Bull.</i> , Vol. 17, No. 3, 1994, pp. 361-264	
		Shingo Sakai et al., "N-Methyl-L-Serine Stimulates Hyaluronan Production in Human Skin Fibroblasts", <i>Skin Pharmacol. Appl. Skin Physiol.</i> , Vol. 12, 1999, pp. 276-283	
		Harry Sobel et al., "Effect of Estradiol on Hyaluronic Acid in the Skin of Aging Mice", <i>Steroids</i> , Vol. 16, No. 1, July 1970, pp. 1-3	
		J. Peter Beltley et al., "Increased Hyaluronate and Collagen Biosynthesis and Fibroblast Estrogen Receptors in Macaque Sex Skin", <i>The Journal of Investigative Dermatology</i> , Vol. 87, No. 5, November 1986, pp. 668-673	
		Kouji Miyazaki et al., "Genistein and Daidzein Stimulate Hyaluronic Acid Production in Transformed Human Keratinocyte Culture and Hairless Mouse Skin", <i>Skin Pharmacol. Appl. Skin Physiol.</i> , Vol. 15, 2002, pp. 175-183	
		Paul H. Weigel et al., "Hyaluronan Synthases", <i>The Journal of Biological Chemistry</i> , Vol. 272, No. 22, May 30, 1997, pp. 13997-14000	
		Juha-Pekka Pienimäki et al., "Epidermal Growth Factor Activates Hyaluronan Synthase 2 in Epidermal Keratinocytes and Increases Pericellular and Intracellular Hyaluronan", <i>The Journal of Biological Chemistry</i> , Vol. 276, No. 23, June 8, 2001, pp. 20428-20435	
		Hideo Hasegawa et al., "Main Ginseng Saponin Metabolites Formed by Intestinal Bacteria", <i>Planta Med.</i> , Vol. 62, 1996, pp. 453-457	
		M. Karikura et al., "Studies on Absorption, Distribution, Excretion and Metabolism of Ginseng Saponins. V. The Decomposition Products of Ginsenoside Rb <sub>2</sub> in the Large Intestine of Rats", <i>Chem. Pharm. Bull.</i> , Vol. 38, No. 10, 1990, pp. 2859-2861	
MC.H		Raul Fleischmajer et al., "Human Dermal Glycosaminoglycans and Aging", <i>Biochimica et Biophysica Acta</i> , Vol. 279, 1972, pp. 265-275	

Examiner Signature		Date Considered	11/10/07
--------------------	---	-----------------	----------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov), MPEP 901.04 or in the comment box of this document. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to indicate here if English language Translation is attached.